



Application for Certification  
Part 1

2017 ModelYear

Durability Group: HCRXGPGENF05  
Evaporative Familie(s): HCRXR0116PKB  
HCRXR0118PPB, HCRXR0118PPA

Test Group: HCRXJ02.45PA

Four Stroke, Otto Cycle, Gasoline Fueled, Ported FI

Ceramic Monolith Pd, Rh Close Coupled Catalyst

2.4 Liter

LDT/LDV

Applicable Standards:

50 State - BIN 110 (ULEV II)

CCV - MSAT Compliant

Vehicles Covered:

Jeep Renegade 4x2

Jeep Cherokee FWD

Jeep Cherokee 4x4

Chrysler 200 FWD

Vehicle(s) Run:

VID 1 config., Vehicle ID V4KLJ4102 (Exhaust)

VID 2 config., Vehicle ID L4PFD6873 (EVAP)

VID 3 config., Vehicle ID K2PFD4647 (EVAP)

VID 4 config., Vehicle ID L2PFD3317 (EVAP)



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### **Section 1 Correspondence and Communication**

For questions dealing with the Part I application for this Test Group contact:

<u>Name</u>	<u>Title</u>	<u>Responsibility</u>	<u>Phone</u>	<u>E-mail</u>	<u>Fax</u>
Beth Borland	Certification Engineer	Application Submission	248.512.3438	<a href="mailto:beth.borland@fcagroup.com">beth.borland@fcagroup.com</a>	248.576.7928
Steve R. Mazure	Manager Certification Team	Certification Program	248.576.5471	<a href="mailto:steve.mazure@fcagroup.com">steve.mazure@fcagroup.com</a>	248.576.7928

For a complete listing of all Correspondence and Communication Information for FCA US LLC, please see:  
"Common Section Book - Section 1 Correspondence and Communication"

### **Section 2 Durability Group Description**

Durability Group Name: HCRXGPGENF05

For a complete description of the Durability Group Description please see:  
"Common Section Book - Section 2. Durability Group Description"

### **Section 3 Evaporative/Refueling Family Description**

Evaporative/Refueling Family Name(s):  
HCRXR0116PKB  
HCRXR0118PPB  
HCRXR0118PPA

For a complete description of the Evaporative/Refueling Family Description please see:  
"Common Section Book - Section 3. Evaporative/Refueling Family Description "

For ORVR Agency Review Sign Off please see:  
"Common Section Book - Section 16. Agency Approvals"



#### **Section 4**   **Durability Procedure Description**

Durability Group: HCRXGPGENF05

Durability Provision Statement:

Based on FCA US LLC 's good engineering judgement, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

For a complete description of the Durability Procedure please see:

"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.

Aged Components were used

Indicate whether additive or multiplicative DF's were used.

N/A

List all DF's calculated at both full and intermediate useful life

EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)

And applicable standards (test results and vehicle description).

Carb - Reference Cert Review Sheet

Evaporative/Refueling Family:

HCRXR0116PKB

HCRXR0118PPB

HCRXR0118PPA

For a complete description of the Durability Procedure please see:

"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.

Yes - Bench Aging

Indicate whether additive or multiplicative DF's were used.

Additive

List all DF's calculated at both full and intermediate useful life

EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)

And applicable standards (test results and vehicle description).

Carb - Reference Cert Review Sheet

#### **Section 5**   **Test Group Description**

Test Group Name:

HCRXJ02.45PA

Engine displacements covered:

2.4 Liter

Arrangement and number of cylinders:

I-4

Vehicle classes covered:

LDT/LDV

Emission standards class:

BIN 110/CCV and MSAT Compliant

AB71 Qualified Vehicles:

No



## **Section 8 Emission Testing Waiver Statements**

Below is a list clearly identifying the standards applicable to this Test Group for which emission testing was not performed. All FCA US LLC applicable vehicles will conform with the emission standards which emission data is not being provided, as allowed under 40 CFR 86.1829-01 or 86.1810-01.

Particulates, HCHO, CST, ASM, NMOG, IM

## **Section 9 OBD Description**

For a complete description of the OBD Description please see: "Common Part 1 Section 16. OBD Description"

For OBD Agency Approvals please see: "Common Part 1 Section 16. Agency Approvals"

OBD Demonstration Compliance Statement: This Test Group meets the full intent of both the Clean Air Act as amended in 1990, section 202(m), and the applicable federal OBD regulations contained in 40 CFR §86.005-17 and 40 CFR §86.1806-01, including a reference to those provisions pertaining to deficiencies in the limited instances where an OBD II system that complies with 1968.2 does not comply with all the requirements of section 1968.1.

## **Section 10 Description of Alternate - Fueled Vehicles**

Vehicles in this test group have dual fuel capabilities. The vehicles can run on either gasoline or ethanol. For certification purposes E85 is used for emission testing and E10 is used for evaporative testing.

# FCA US LLC

## Test Group - HCRXJ02.45PA

EPA COMP CODE	AA-100	AA-200	AA-250	AA-300	AA-350	AA-400
E10:Powertrain Control Module						
E11:Transmission Control Module						
E17:ABS Control Module						
F03:Plastic Fuel Tank (Partial)						
F04:Plastic Fuel Tank Assembly						
F05:Fuel Pump						
F10:Fuel Level Sending Unit						
F16:Fuel Tank Filler Cap						
F17:Fuel Tank Check Valve						
F21:Fuel Tank Rollover Valve						
F29:Fuel Tank Pressure Sensor						
F36:Fuel Filler Receptacle						
F40:Throttle Body						
F50:Fuel Injector						
F55:Fuel Pressure Regulator						
F64:Fuel Pump Module						
F70:Evap. Canister Assembly						

EPA COMP CODE	AA-100	AA-200	AA-250	AA-300	AA-350	AA-400
F73:ORVR Control Valve						
F79:ESIM (Evaporative System Integrity Monitor)						
H08:Exhaust Manifold Catalytic Converter						
I05:Spark Plug						
L01:Heated Oxygen Sensor						
L12:Accelerator Pedal Position Sensor						
L13:Accelerator Pedal Assembly						
L15:Camshaft Position Sensor						
L16:Crankshaft Position Sensor						
L20:Knock Sensor						
L25:Vehicle Speed Sensor						
M01:Engine Coolant Temp. Sensor						
M04:Intake Air Temperature Sensor						
M10:Ambient Temperature Sensor						
N24:Oil Pressure Sensor						
N25:Engine Oil Cooler						
N50:Engine Thermostat						
R11:Transmission Oil Cooler Bypass Valve						
T27:Transmission Pressure Sensor						
T53:Transmission Range Sensor						

EPA COMP CODE	AA-100	AA-200	AA-250	AA-300	AA-350	AA-400
V01:PCV Valve						
V05:MAP Sensor						
V07:Mass Airflow Sensor						
V63:Evap. Can. Purge Solenoid						
V80:Active Grill Shutter Actuator						
Z01:VECI Label						

Section11-100 Engine Parts List



# FCA US LLC

**Test Group :**HCRXJ02.45PA

**Durability Group:** HCRXGPGENF05    **Standard Fed:** Bin110+    **Cal:** N/A

Trans. Code	Sales Code	Transfer Case Sales Code/Drive Code	No. of Gears	Over Drive Gear Ratio	Drive Gear Ratio	Engine Sales Code	Torque Code	Torque Size	Conv Clutch Control Type Calib/Special Features
L9	DFH	2F	9	0.479	4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479	ED6	NC	275 MM	Electronically shifted data on file
L9	DFH	2F	9	0.479	4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479	ED6	UC	242MM	Electronically shifted data on file
L9	DFH	DK2 / 4F	9	0.479	4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479	ED6	UC	242MM	Electronically shifted data on file
L9	DFH	2F	9	0.479	4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479	ED6	OC	248 MM	Electronically shifted data on file

Section12-200 Transmission

# FCA US LLC

## HCRXJ02.45PA

**Durability Group:**  
**HCRXGPGENF05**

**Standard Fed: Bin110+      Cal: N/A**

**Asterisk (\*) Indicates Manufacturer has elected to certify at this higher test weight class as allowed by CFR 86.1831-01**

**Engine Code AA-100      Eng Displ: 2.4L (ED6)      Evap Family - Evap Code: HCRXR0116PKB-12.7**

Model	Carline Name	Model Qualifier	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
BUTA74	Jeep: Renegade 4x2		XKN	L9 - FWD DFH	NC B2.4b	4197	3500 1942 3188		1.79	22.8	215/60R17 TTU	TZC	322902	16.37	13.2	23.64000	0.37090	0.02286	26.00000	0.40800	0.02515
									1.79	22.3	225/55R18 TWL	TZA	HS1566	16.28	13.3	21.10000	0.53450	0.02083	23.21000	0.58800	0.02291
									1.79	22.9	215/65R16 TM9	TZC	322493	16.22	13.4	21.70000	0.50630	0.02128	23.87000	0.55690	0.02341
									1.79	22.8	215/60R17 TTU	TZD	CW21	16.01	13.5	23.10000	0.48210	0.02174	25.41000	0.53030	0.02391
									1.79	22.3	225/55R18 TWL	TZL	K3B	15.99	13.6	22.58000	0.52100	0.02122	24.84000	0.57310	0.02334
									1.79	22.8	215/60R17 TTU	TZL	NP OTS	15.80	13.7	23.49000	0.54740	0.02081	25.84000	0.60210	0.02289

**Engine Code AA-200      Eng Displ: 2.4L (ED6)      Evap Family - Evap Code: HCRXR0118PPB-15.8**

Model	Carline Name	Model Qualifier	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
KLTA74	Jeep: Cherokee FWD		XKN	L9 - FWD DFH	UC B2.4b	5050	4000 2172 3668		1.79	22.5	225/60R17 TRA	TZF	ZB783Q	19.00	13.0	20.34000	0.41400	0.02271	22.37000	0.45540	0.02498
									1.79	22.2	225/55R18 TWL	TZC	304002	18.18	13.6	24.73000	0.41010	0.02279	27.20000	0.45110	0.02507

**Engine Code AA-250      Eng Displ: 2.4L (ED6)      Evap Family - Evap Code: HCRXR0118PPB-15.8**

Model	Carline Name	Model Qualifier	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
KLTA74	Jeep: Cherokee FWD		XKN	L9 - FWD DFH	UC B2.4b	5050	4000 2172 3668		1.79	22.5	225/60R17 TRA	TZF	ZB783Q	19.00	13.0	20.34000	0.41400	0.02271	22.37000	0.45540	0.02498
									1.79	22.2	225/55R18 TWL	TZC	304002	18.18	13.6	24.73000	0.41010	0.02279	27.20000	0.45110	0.02507

**Engine Code AA-300****Eng Displ: 2.4L (ED6)****Evap Family - Evap Code: HCRXR0118PPB-15.8**

Model	Carline Name	Model Qualifier	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
KLJA74	Jeep: Cherokee 4X4		XKN	L9 - AWD DFH / DK2-4F	UC B2.4b	5500	4250 2281 4035		1.79	21.9	225/65R17 TRF	TZF	ZB788Q	18.69	14.1	26.15000	0.45470	0.02268	28.77000	0.50020	0.02495
									1.79	21.5	225/60R18 TWS	TZC	303856	18.33	14.4	27.85000	0.47350	0.02245	30.64000	0.52090	0.02470

**Engine Code AA-350****Eng Displ: 2.4L (ED6)****Evap Family - Evap Code: HCRXR0118PPB-15.8**

Model	Carline Name	Model Qualifier	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
KLJA74	Jeep: Cherokee 4X4		XKN	L9 - AWD DFH / DK2-4F	UC B2.4b	5500	4250 2281 4035		1.79	21.9	225/65R17 TRF	TZF	ZB788Q	18.69	14.1	26.15000	0.45470	0.02268	28.77000	0.50020	0.02495
									1.79	21.5	225/60R18 TWS	TZC	303856	18.33	14.4	27.85000	0.47350	0.02245	30.64000	0.52090	0.02470

**Engine Code AA-400****Eng Displ: 2.4L (ED6)****Evap Family - Evap Code: HCRXR0118PPA-15.8**

Model	Carline Name	Model Qualifier	Opt	Trans. / Tr.Case	Torq. Conv./ Catalyst Identifier	GVW	LVW TWC Drive Curb	ALVW TWC Drive Curb	Axle / OTGR	N/V	Tire	Tire Mfr.	Tire Constr.Cd.	Elec Dyno Q.C.	Elec Dyno RLHP	Dyno Coeff 70A	Dyno Coeff 70 B	Dyno Coeff 70C	Dyno Coeff 20A	Dyno Coeff 20B	Dyno Coeff 20C
UFCA41	Chrysler: 200		XKN	L9 - FWD DFH	OC B2.4b	4612	3750 2079 3467		1.79	23.5	215/55R17 TM1	TZB	ZC888Q	23.28	10.0	20.69000	0.11030	0.01946	22.76000	0.12130	0.02141
									1.79	23.5	215/55R17 TMA	TZA	2X7020F	22.92	10.1	20.98000	0.12530	0.01951	23.08000	0.13780	0.02146
									1.79	23.5	235/45R18 TSU	TZB	ZC805Q	21.33	10.9	25.95000	0.07360	0.02081	28.55000	0.08100	0.02289
									1.79	23.5	215/55R17 TKE	TZN	CCUFA4E	21.16	11.0	26.60000	0.12670	0.01974	29.26000	0.13940	0.02171
									1.79	23.4	235/45R18 TX5	TZN	CCUFB4A	20.64	11.2	28.59000	0.14080	0.01948	31.45000	0.15490	0.02143
									1.79	23.4	235/45R18 TSQ	TZL	CAF103G	20.33	11.4	29.83000	0.15190	0.01927	32.81000	0.16710	0.02120
									1.79	23.4	235/40R19 TS7	TZN	CCUFC6E	19.68	11.8	32.14000	0.15700	0.01937	35.35000	0.17270	0.02131
									1.79	23.1	245/40R19 TAR	TZP	A27004	19.29	12.0	35.59000	0.13750	0.01909	39.15000	0.15130	0.02100

## FCA US LLC

### Test Group: HCRXJ02.45PA - Engine Code Index

**Durability Group:**  
**HCRXGPGENF05**

**Standard : Bin110+ / NA Vehicle Class: LDV (0-5750 LVW) / NA**

**Engine Code: AA-100 - 2.4L ED6 BU FWD w/DFH, 3.734 FDR FFV CCV**

Engine Code	RC #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-100	Original		2.4L/ED6	BU		L9/ Automatic L9 - Lockup/Automatic/9-speed	4197	4197	3500	3500	FWD	NAS

**Engine Code: AA-200 - 2.4L ED6 KL FWD w/DFH, 3.734 FDR w/AGS FFV**

Engine Code	RC #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-200	Original		2.4L/ED6	KL		L9/ Automatic L9 - Lockup/Automatic/9-speed	5050	5050	4000	4000	FWD	NAS

**Engine Code: AA-250 - 2.4L ED6 KL FWD w/DFH, 3.734 FDR w/o AGS FFV**

Engine Code	RC #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-250	Original		2.4L/ED6	KL		L9/ Automatic L9 - Lockup/Automatic/9-speed	5050	5050	4000	4000	FWD	NAS

**Engine Code: AA-300 - 2.4L ED6 KL AWDw/DFH,1-spd PTU,3.734 FDR w/AGS FFV**

Engine Code	RC #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-300	Original		2.4L/ED6	KL		L9/ Automatic L9 - Lockup/Automatic/9-speed	5500	5500	4250	4250	AWD	NAS

**Engine Code: AA-350 - 2.4L ED6 KL AWDw/DFH,1-spd PTU,3.734 FDRw/oAGS FFV**

Engine Code	RC #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-350	Original		2.4L/ED6	KL		L9/ Automatic L9 - Lockup/Automatic/9-speed	5500	5500	4250	4250	AWD	NAS

**Engine Code: AA-400 - 2.4L ED6 UF FWD,3.734 FDR w/AGS FFV**

Engine Code	RC #	Date	Engine	Carline	Price Class	Trans. Configuration	GVW Min.	GVW Max.	Test Wt. Min.	Test Wt. Max	Drive Code	Sales Areas
AA-400	Original		2.4L/ED6	UF		L9/ Automatic L9 - Lockup/Automatic/9-speed	4612	4612	3750	3750	FWD	NSA

**Test Group: HCRXJ02.45PA - No Engine Code Changes**

**Durability Group: HCRXGPGENF05    Standard Fed: Bin110   Cal: N/A**

RC #	Submission Date	Description
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No Results Found

Section12-500 Engine Code Index

### Vehicle Parameters

Valves per cylinder

Engine  
2.4L - 4

### Test Parameters

SIL usage:

See shift schedule table

Cooling fan configuration:

Models  
All - One fan center front

Addition Cooling:

Models  
All - None

Evaporative Testing Parameters:

Model  
BU – 116 grams  
KL – 118 grams  
UF – 118 grams

Fuel temperature Profile:

Models  
All – BU/KL Models – eKL FFV  
All –UF Models – ePF FFV

Special Test Procedure:

Models  
All - none



June 13, 2016

Mr. Joel Dalton  
Certification and Compliance Division  
U.S. Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, Michigan 48105

Dear Mr. Dalton:

**Re: 2017 Model Year LDV/LDT Certificate of Conformity Request**

FCA US LLC requests a 2017 MY Certificate of Conformity for the 2.4L Tier 3 BIN 110 Federal and 50-State CCV test group HCRXJ02.45PA with evaporative families HCRXR0116PKB, HCRXR0118PPB and HCRXR0118PPA. This test group is being certified to Tier 3, BIN 110 standards, MSAT standards, and qualifies to be certified by the State of California's "Cleanest Vehicle" requirements and to be counted as ULEV 2 in California. FCA US LLC agrees to meet the Tier 3, BIN 110 standards, and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group HCRXJ02.45PA. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f) (1). The FTP emission standards for this LDT/LDV test group are as follows:

<u>Emission Standards</u>			<u>NMOG+NOx</u>	<u>CO</u>	<u>HCHO</u>	Highway <u>NMOG+NOx</u>
Federal BIN 110	E0 & E85	120K	0.110	2.1	0.004	0.110
<u>Evaporative Standards</u>			<u>3-Day</u>	<u>2-Day</u>	<u>R/L</u>	<u>ORVR</u>
HCRXR0116PKB	E0 & E10*	120K	0.65	0.85	0.05	0.20
HCRXR0118PPB	E0 & E10*	120K	0.400	0.400	0.05	0.20
HCRXR0118PPA	E0 & E10*	120K	0.300	0.300	0.05	0.20

\* No ORVR for E10.

Initial combined Gasoline CREE for HCRXJ02.45PA test group is = 293.8

Initial combined Ethanol CREE for HCRXJ02.45PA test group is = 282.8

The California Executive Order is A-009-1347 and models are as follows:

**Division / Model**

Jeep Renegade 4x2  
Jeep Cherokee FWD  
Jeep Cherokee 4x4  
Chrysler 200 FWD

If there are any questions regarding this submission, please contact Beth Borland at (248) 512-3438 or Steve Mazure at (248) 576-5471.

Sincerely,  
FCA US LLC

Steve Mazure, Manager  
Vehicle Certification  
srm/bab





June 13, 2016

Ms. Annette Hebert, Chief  
ECARS Division  
Air Resources Board  
9480 Telstar Avenue, Suite 4  
El Monte, California 91731

Dear Ms. Hebert:

**Re: 2017 Model Year PC/LDT Executive Order Request (#A-009-1347)**

FCA US LLC requests a 2017 MY Executive Order for the 2.4L 50-State CCV test group HCRXJ02.45PA with evaporative families HCRXR0116PKB, HCRXR0118PPB and HCRXR0118PPA. This test group is being certified to Tier 3 BIN 110, MSAT standards, and qualifies to be certified by the State of California's "Cleanest Vehicle" requirements and to be counted as ULEV 2 in California. FCA US LLC agrees to meet the Tier 3 BIN 110 emission standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group HCRXJ02.45PA. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f) (1). The FTP emission standards for this PC/LDT test group are as follows:

<u>Emission Standards</u>			<u>NMOG+NO<sub>x</sub></u>	<u>CO</u>	<u>HCHO</u>	Highway <u>NMOG+NO<sub>x</sub></u>
California CCV	E0 & E85	120K	0.110	2.1	0.004	0.110

<u>Evaporative Standards</u>			<u>3-Day</u>	<u>2-Day</u>	<u>R/L</u>	<u>ORVR</u>
HCRXR0116PKB	E0 & E10*	150K	0.65	0.85	0.05	0.20
HCRXR0118PPB	E0 & E10*	150K	0.400	0.400	0.05	0.20
HCRXR0118PPA	E0 & E10*	150K	0.300	0.300	0.05	0.20

\* No ORVR for E10. ORVR useful life is 120K.

Initial combined Gasoline CREE for HCRXJ02.45PA test group is = 293.8

Initial combined Ethanol CREE for HCRXJ02.45PA test group is = 282.8

FCA US LLC attests that the test and production vehicles do not have defeat devices; that all AECDs have been declared and described in the Application; and that test and production vehicles do not have alternate maps.

If there are any questions regarding this submission, please contact Beth Borland at (248) 512-3438 or Steve Mazure at (248) 576-5471.

Sincerely,

FCA US LLC

Steve Mazure, Manager  
Vehicle Certification

c: L. Benedict  
srm/bab

# USEPA Fee Form

## General Information

Date:	<input type="text" value="02/22/2016"/>
Process Code:	<input type="text" value="Submit New Filing Fee Form"/>
Manufacturer Code:	<input type="text" value="CRX"/>
Manufacturer Name:	<input type="text" value="FCA USLLC"/>

## Manufacturer Contact

Name:	<input type="text" value="Kelli Myers"/>
Email Address:	<input type="text" value="kelli.myers@fcagroup.com"/>
Phone:	<input type="text" value="248-576-5457"/>
Calendar Year complete application submitted to EPA:	<input type="text" value="2016"/>
Engine Family / Evaporative Family / Test Group:	<input type="text" value="HCRXJ02.45PA"/>

## Certificate Request Type (Industry Sector Code)

- |  |   |
|--|---|
| <input checked="" type="radio"/> On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V) | <input type="radio"/> Nonroad CI (L)  |
| <input type="radio"/> On-Highway HDE Dyno Cert (Federal) (E, H)  | <input type="radio"/> Nonroad SI (B, S)   |
| <input type="radio"/> On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)                              | <input type="radio"/> Locomotive (G, K)   |
| <input type="radio"/> On-Highway Motorcycle (C)  | <input type="radio"/> All Nonroad Recreational, excluding Marine engines (X, Y) |
| <input type="radio"/> On-Highway HDV Evap (F)  | <input type="radio"/> All Marine (Including IMO) (M, N, W)                      |
| <input type="radio"/> On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)    | <input type="radio"/> Component Certification for Evaporative Emissions (P)     |
| <input type="radio"/> On-Highway HDE Dyno Cert (California-Only) (E, H)                                    |   |

IMO Name (Required for dual US/IMO Marine Only):

ICI VIN Number (Required for ICIs Only):

Do you qualify for a Reduced Fee (RF)?

What is the total number of vehicles, engines, or units covered?:

What is the aggregate total retail value of the vehicles, engines or units covered?:


## Payment Information

Amount Owed:	<input type="text" value="22,889.00"/>
Payment Type:	<input type="text" value="Offline Wire"/>

## Comments:




**2017 50-STATE (NAS) 2.4L FFV BU**  
Test Group: HCRXJ02.45PA

FCA US LLC		VEHICLE EMISSION CONTROL INFORMATION	
GROUP: HCRXJ02.45PA NO ADJUSTMENTS NEEDED HO2S / SFI / TWC / WR - HO2S		EVAP: HCRXR0116PKB	CONFORMS TO REGULATIONS: 2017 MY FFV ENGINE: 2.4L
U.S. EPA: T3 B110 LDV OBD: CA OBD II FUEL: GASOLINE / ETHANOL		47480 815AA	
CA: OBD: CA OBD II FUEL: GASOLINE / ETHANOL CERTIFIED FOR SALE ULEV II QUALIFIED.			

**HCRXJ02.45PA Part 1 Section 15-100 (2017)**




**2017 50-STATE (NAS) 2.4L FFV KL**  
Test Group: HCRXJ02.45PA

FCA US LLC		VEHICLE EMISSION CONTROL INFORMATION	
GROUP: HCRXJ02.45PA NO ADJUSTMENTS NEEDED HO2S / SFI / TWC / WR - HO2S		EVAP: HCRXR0118PPB	CONFORMS TO REGULATIONS: 2017 MY FFV ENGINE: 2.4L
U.S. EPA: T3 B110 LDV OBD: CA OBD II FUEL: GASOLINE / ETHANOL		47480 852AA	
CA: OBD: CA OBD II FUEL: GASOLINE / ETHANOL This vehicle conforms to federal regulations and is certified for sale in California.			

**HCRXJ02.45PA Part 1 Section 15-101 (2017)**



**2017 50-STATE (NAS) 2.4L FFV UF**  
Test Group: HCRXJ02.45PA

FCA US LLC		VEHICLE EMISSION CONTROL INFORMATION	
GROUP: HCRXJ02.45PA NO ADJUSTMENTS NEEDED HO2S / SFI / TWC / WR - HO2S		EVAP: HCRXR0118PPA	CONFORMS TO REGULATIONS: 2017 MY FFV ENGINE: 2.4L
U.S. EPA: T3 B110 LDV OBD: CA OBD II FUEL: GASOLINE / ETHANOL		47480 853AA	
CA: OBD: CA OBD II FUEL: GASOLINE / ETHANOL This vehicle conforms to federal regulations and is certified for sale in California.			

**HCRXJ02.45PA Part 1 Section 15-102 (2017)**